

Operations Research/Computer Science Interfaces Series

Jürgen W. Böse *Editor*

Handbook of Terminal Planning

Second Edition



 Springer

Handbook Of Terminal Planning Operations

Researchcomputer Science Interfaces Series

**Thorsten Blecker, Carlos
Jahn, Wolfgang Kersten**



Handbook Of Terminal Planning Operations Researchcomputer Science Interfaces Series:

Handbook of Terminal Planning Jürgen W. Böse, 2011-02-26 Container Terminals CT operate as central nodes in worldwide hub and spoke networks and link ocean going vessels with smaller feeder vessels as well as with inbound and outbound hinterland transportation systems using road rail or inland waterways The volume of transcontinental container flows has gained appreciably over the last five decades throughput figures of CT reached new records frequently with double digit annual growth rates Stimulated by throughput requirements and stronger competition between terminals settled in the same region or serving a similar hinterland respectively cost efficiency and throughput capabilities become more and more important Nowadays both terminal capacity and costs have to be regarded as key indicators for CT competitiveness In respect of this steady growth this handbook focuses on planning activities being aimed at order of magnitude improvements in terminal performance and economic viability On the one hand the book is intended to provide readership with technological and organizational CT basics for strategic planning On the other hand this book offers methodical assistance for fundamental dimensioning of CT in terms of technique organization or man The former primarily considers comprehensive information about container handling technologies representing the state of the art for present terminal operations while the latter refers to methodological support comprising in particular quantitative solutions and modeling techniques for strategic terminal decisions as well as straightforward design guidelines The handbook includes an introductory contribution which gives an overview of strategic planning problems at CT and introduces the contributions of the volume with regard to their relationship in this field Moreover each paper contains a section or paragraph that describes the impact of findings investigated by the author s for problem solving in long term planning of CT as an application domain The handbook intends to provide solutions and insights that are valuable for both practitioners in industry who need effective planning approaches to overcome problems and weaknesses in terminal design development and researchers who would like to inform themselves about the state of the art in methodology of strategic terminal planning or be inspired by new ideas That is to say the handbook is addressed to terminal planners in practice as well as to students of maritime courses of study and application oriented researchers in the maritime field Dynamic Shipping and Port Development in the Globalized Economy Paul Yae-Woo Lee, Kevin Cullinane, 2016-01-26 This two volume book presents an in depth analysis of many of the most important issues facing today s shipping and port sectors Volume 2 of Dynamic Shipping and Port Development in the Globalized Economy focuses on the emerging trends in ports **Dry Ports - A Global Perspective** Rickard Bergqvist, 2016-04-29 As centres for logistics activities seaports have traditionally been the focus of maritime logistics chains However changes in production patterns supported by the development of rapid transport of goods over long distances have altered the logistics landscape As a result the relevance of port hinterland transport has become more important with a consequent need for the high utilisation of transport resources and infrastructure through the consolidation of cargo flows

and for seaports to extend their influence within their hinterlands to increase their competitiveness The development worldwide of inland ports terminals and dryports in their various forms together with associated new functions and strategies address these challenges in diverse ways to realise the potential benefits that come from the successful implementation of inland ports that connect seamlessly into transportation systems This book comprises case studies and state of the art examples of dryports in different parts of the world that have varying economic social institutional and environmental realities and which exhibit the complexity of and diverse approaches to this recent logistics phenomenon

Computational Logistics Ana Paías, Mario Ruthmair, Stefan Voß, 2016-08-15 This book constitutes the refereed proceedings of the 7th International Conference on Computational Logistics ICCL 2016 held in Lisbon Portugal in September 2016 The 29 papers presented in this volume were carefully reviewed and selected for inclusion in the book They are organized in topical sections entitled container terminals and maritime transportation intermodal transport location and routing general logistics and supply chain management

Dynamics in Logistics Michael Freitag, Aseem Kinra, Herbert Kotzab, Nicole Megow, 2024-04-02 This book reports on interdisciplinary research and developments in logistics It describes cutting edge methods from business economics operations research computer science and electrical and production engineering applied to solve current problems in logistics It includes empirical theoretical methodological and practice oriented contributions addressing the modeling planning optimization and control of processes in supply chains logistic networks production systems and material flow systems and facilities Gathering peer reviewed papers presented at the 9th International Conference on Dynamics in Logistics LDIC 2024 held on February 14 16 2024 in Bremen Germany and continuing the tradition of previous volumes this book offers extensive information to both researchers and professionals in logistics Moreover it emphasizes current challenges such as those related to sustainable business development and digitalization proposing novel effective solutions to cope with current issues in different types of industry

European Port Cities in Transition Angela Carpenter, Rodrigo Lozano, 2020-01-22 Seaports as part of urban centers play a major role in the cultural social and economic life of the cities in which they are located and through the links they provide to the outside world Port cities in Europe have faced significant change first with the loss of heavy industry emergence of Eastern European democracies and the widening of the European Community now European Union during the second half of the twentieth century and more recently through drivers to change including the global Sustainable Development Agenda and the European Union Circular Economy Agenda This book examines the role of modern seaports in Europe and consider how port cities are responding to these major drivers for change It discusses the broad issues facing European Sea Ports including port life cycles spatial planning and societal integration May 2019 saw the 200th anniversary of the first steam ship to cross the Atlantic between the US and England and it is just over 60 years since the invention of the modern intermodal shipping container both drivers of change in the maritime and ports industry Increasing movements of people e g through low cost cruises to port cities can play a major role

in changing the nature of such a city and impact on the lives of the people living there This book brings together original research by both long standing and younger scholars from multiple disciplines and builds upon the wider discourse about sea ports port cities and sustainability

International Encyclopedia of Transportation ,2021-05-13 In an increasingly globalised world despite reductions in costs and time transportation has become even more important as a facilitator of economic and human interaction this is reflected in technical advances in transportation systems increasing interest in how transportation interacts with society and the need to provide novel approaches to understanding its impacts This has become particularly acute with the impact that Covid 19 has had on transportation across the world at local national and international levels Encyclopedia of Transportation Seven Volume Set containing almost 600 articles brings a cross cutting and integrated approach to all aspects of transportation from a variety of interdisciplinary fields including engineering operations research economics geography and sociology in order to understand the changes taking place Emphasising the interaction between these different aspects of research it offers new solutions to modern day problems related to transportation Each of its nine sections is based around familiar themes but brings together the views of experts from different disciplinary perspectives Each section is edited by a subject expert who has commissioned articles from a range of authors representing different disciplines different parts of the world and different social perspectives The nine sections are structured around the following themes Transport Modes Freight Transport and Logistics Transport Safety and Security Transport Economics Traffic Management Transport Modelling and Data Management Transport Policy and Planning Transport Psychology Sustainability and Health Issues in Transportation Some articles provide a technical introduction to a topic whilst others provide a bridge between topics or a more future oriented view of new research areas or challenges The end result is a reference work that offers researchers and practitioners new approaches new ways of thinking and novel solutions to problems All encompassing and expertly authored this outstanding reference work will be essential reading for all students and researchers interested in transportation and its global impact in what is a very uncertain world Provides a forward looking and integrated approach to transportation Updated with future technological impacts such as self driving vehicles cyber physical systems and big data analytics Includes comprehensive coverage Presents a worldwide approach including sets of comparative studies and applications

ECIIC 2019 10th European Conference on Intangibles and Intellectual Capital Prof. Massimo Sargiacomo,2019-05-23

Maritime Logistics in the Global Economy Thorsten Blecker,Carlos Jahn,Wolfgang Kersten,2011

Container Handling in Automated Yard Blocks Filip Covic,2019-01-28 The yard block of a container terminal is the central point of synchronisation for asynchronous container flows between deep sea vessels and transport to the hinterland The structure of the block stipulates that containers are stacked on top of each other with only the topmost container directly accessible by a yard crane This book describes a holistic and integrative approach to container handling in yard blocks to optimise productivity by minimising re handling operations The results provide insights

for academic scholars as well as for experts from practical terminal planning and operations The approach presented is two fold first a theoretical foundation of the interdependencies in decision making is established using mathematical programming Secondly operations involving uncertain container arrival information are examined on the basis of a simulation with a rigorous experimental design and statistical evaluation In this context the book develops container handling strategies and analyses the impact of a system for vehicle arrival management the Terminal Appointment System The findings presented in this book are the result of a close cooperation with experts at the port of Hamburg and build on previous research

Infrastructure Investment in Indonesia: A Focus on Ports Colin Duffield, Felix Kin Peng Hui, Sally Wilson ,2019-11-10 Infrastructure Investment in Indonesia A Focus on Ports presents an important and original collation of current material investigating the efficient facilitation of major infrastructure projects in Indonesia and Australia with an emphasis on infrastructure investment and a focus on port planning and development This interdisciplinary collection spanning the disciplines of engineering law and planning draws helpfully on a range of practical and theoretical perspectives It is the collaborative effort of leading experts in the fields of infrastructure project initiation and financing and is based on international research conducted by the University of Melbourne Universitas Indonesia and Universitas Gadjah Mada The volume opens with a macroscopic perspective outlining the broader economic situations confronting Indonesia and Australia before adopting a more microscopic perspective to closely examine the issues surrounding major infrastructure investment in both countries Detailed case studies are provided key challenges are identified and evidence based solutions are offered These solutions respond to such topical issues as how to overcome delays in infrastructure project initiation how to enhance project decision making for the selection and evaluation of projects how to improve overall efficiency in the arrangement of project finance and governance and how to increase the return provided by investment in infrastructure Special focus is given to proposed improvements to the port cities of Indonesia in the areas of major infrastructure project governance policies engagement operation and processes By rigorously investigating the economic transport finance and policy aspects of infrastructure investment this book will be a valuable resource for policy makers and government officials in Indonesia and Australia infrastructure investment organisations and companies involved in exporting services between Indonesia and Australia This book will also be of interest to researchers and students of infrastructure planning and financing setting a solid foundation for subsequent investigations of financing options for large scale infrastructure developments

Design and Operation of Automated Container Storage Systems Nils Kemme,2012-11-07 The storage yard is the operational and geographical centre of most seaport container terminals Therefore it is of particular importance for the whole terminal system and plays a major role for trade and transport flows One of the latest trends in container storage operations is the automated Rail Mounted Gantry Crane system which offers dense stacking and offers low labour costs This book investigates whether the operational performance of container terminals is influenced by the design of these storage systems and to what

extent the performance is affected by the terminal s framework conditions and discusses the strategies applied for container stacking and crane scheduling A detailed simulation model is presented to compare the performance effects of alternative storage designs innovative planning strategies and other influencing factors The results have useful implications future research practical terminal planning and optimisation

EAI International Conference on Renewable Energy and Sustainable Manufacturing Nguyen Thanh Hai,Nguyen Xuan Huy,Khalil Amine,Tran Dai Lam,2024-10-17 This book presents the proceedings of the EAI International Conference on Renewable Energy and Sustainable Manufacturing ICRESM 2023 which took place in Ho Chi Minh City Vietnam December 16 17 2023 The conference serves as a platform for researchers practitioners industry experts policymakers and stakeholders to share their latest findings innovations and best practices in the areas of sustainable practices and technologies that reduce reliance on non renewable resources and encourage the impacts of smart industry 4 0 The papers address global challenges relating to the sustainable manufacturing energy security and green technologies and discuss applications that aid in lowering carbon emissions preserving the environment and fostering economic growth by supporting renewable energy and eco friendly manufacturing Together the participants disseminate the latest technological advancements processes and strategies that promote renewable energy and sustainable manufacturing

Games and Learning Alliance Rosa Bottino,Johan Jeuring,Remco C. Veltkamp,2016-11-21 This book constitutes the refereed proceedings of the 5th International Conference on Games and Learning Alliance GALA 2016 held in Utrecht The Netherlands in December 2016 The 27 revised regular papers presented together with 14 poster papers were carefully reviewed and selected from 55 submissions The papers cover topics such as games and sustainability games for math and programming games and health games and soft skills games and management games and learning game development and assessment and mobile games

Women in Industrial and Systems Engineering Alice E. Smith,2019-09-13 This book presents a diversity of innovative and impactful research in the field of industrial and systems engineering ISE led by women investigators After a Foreword by Margaret L Brandeau an eminent woman scholar in the field the book is divided into the following sections Analytics Education Health Logistics and Production Also included is a comprehensive biography on the historic luminary of industrial engineering Lillian Moeller Gilbreth Each chapter presents an opportunity to learn about the impact of the field of industrial and systems engineering and women s important contributions to it Topics range from big data analysis to improving cancer treatment to sustainability in product design to teamwork in engineering education A total of 24 topics touch on many of the challenges facing the world today and these solutions by women researchers are valuable for their technical innovation and excellence and their non traditional perspective Found within each author s biography are their motivations for entering the field and how they view their contributions providing inspiration and guidance to those entering industrial engineering

Computational Logistics Raffaele Cerulli,Andrea Raiconi,Stefan Voß,2018-09-19 This book constitutes the refereed proceedings of the 9th International Conference on

Computational Logistics ICCL 2018 held in Vietri sul Mare Italy in October 2018 The 32 full papers presented were carefully reviewed and selected from 71 submissions They are organized in topical sections as follows maritime shipping and routing container handling and container terminals vehicle routing and multi modal transportation network design and scheduling logistics oriented combinatorial optimization *Perspectives in Operations Research* Frank B. Alt, Michael C. Fu, Bruce L. Golden, 2006-12-26 A Symposium was held on February 25 2006 in honor of the 80th birthday of Saul I Gass and his major contributions to the field of operations research over 50 years This volume includes articles from each of the Symposium speakers plus 16 other articles from friends colleagues and former students Each contributor offers a forward looking perspective on the future development of the field *Information Technologies and Mathematical Modelling. Queueing Theory and Related Fields* Alexander Dudin, **Handbook of Ocean Container Transport Logistics** Chung-Yee Lee, Qiang Meng, 2014-12-13 This book is focused on the impact of ocean transport logistics on global supply chains It is the first book solely dedicated to the topic linking the interaction of parties along this chain including shippers terminal operators and line carriers While ocean container transport logistics has been greatly studied there are many important issues that have yet to receive the attention they deserve The editors and contributing authors of Ocean Container Transport Logistics Making Global Supply Chain Effective seek to address these topics and shed new light on the subject The book is divided into three parts Part I examines the innovation trends competition and business model of container terminal operations In Part II the book looks at how tactical and operational management is used in shipping liners The chapters cover topics such as empty container repositioning slow steaming routing network design and disruption management Finally Part III explores at shippers and global supply chain management with chapters on transportation service procurement hinterland transportation green corridors as well as competition and co operation in maritime logistics operations The eighteen chapters of the book all highlight the immediate effect of ocean transport logistics on global supply chain Soft Computing Based Optimization and Decision Models David A. Pelta, Carlos Cruz Corona, 2017-08-03 This book offers a timely snapshot of current soft computing research and solutions to decision making and optimization problems which are ubiquitous in the current social and technological context addressing fields including logistics transportation and data analysis Written by leading international experts from the United States Brazil and Cuba as well as the United Kingdom France Finland and Spain it discusses theoretical developments in and practical applications of soft computing in fields where these methods are crucial to obtaining better models including intelligent transportation systems maritime logistics portfolio selection decision making fuzzy cognitive maps and fault detection The book is dedicated to Professor Jos L Verdegay a pioneer who has been actively pursuing research in fuzzy sets theory and soft computing since 1982 in honor of his 65th birthday

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